

51-4-23/26

SAVIST, P.

AUTHORS: Ivanova, N. I. and Shvist, P.
TITLE: Narrow Luminescence Bands of the NaBr-CuBr Phosphor.
(Uzkiye polosy lyuminesentsii fosfora NaBr-CuBr.)

PERIODICAL: Optika i Spektroskopiya, 1957, Vol.III, Nr.4,
pp.399-400. (USSR)

ABSTRACT: The NaBr-Cu phosphor grown as a monocrystal has two wide luminescence bands: ultraviolet at 365 mμ and blue at 438 mμ (Ref.1). The present authors prepared samples of the NaBr-CuBr phosphor by heating together the base and the activator. The samples were prepared with 0.03, 0.1, 0.3, 1.0 and 3.0 mol.% of CuBr by heating for 10 minutes at 50-350°C. NaBr was in dehydrated form. In addition to the bands present in the monocrystal, there was a new narrow violet band at 421 mμ (Fig.1, which shows the spectrum for NaBr-CuBr with 0.5 mol.% of the activator). This new band may be best observed on samples with 1.0 mol.% of CuBr prepared at

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at these centres. At -180°C spectra shown in Fig.2 were obtained using

Narrow Luminescence Bands of the NaBr-CuBr Phosphor.

51-4-23/26

ASSOCIATION: Physics/Scientific-
Research Institute, Leningrad State University.
(Nauchno-issledovatel'skiy fizicheskiy institut
Leningradskogo gosudarstvennogo universiteta.)

SUBMITTED: April 13, 1957.

AVAILABLE: Library of Congress.

Card 4/4

SOV/51-4-6-18/24

AUTHOR: Shvist, P.

TITLE: On Low-Temperature Luminescence of CuBr (O nizekoterperaturnoy lyuminesentsii CuBr)

PERIODICAL: Optika i Spektroskopiya, 1958, Vol IV, Nr 6, pp 801-803 (USSR)

ABSTRACT: In order to obtain CuBr with a surface free of oxidation products and adsorbed gases it was prepared by decomposition of CuBr₂ in vacuum. Luminescence was observed at the liquid nitrogen temperature on excitation with light from a SVDSH-250 mercury lamp. Freshly prepared CuBr at 77°K does not luminesce in vacuum. If, however, some air is let into the vessel containing the sample, CuBr begins to luminesce brightly. Five narrow bands with maxima at 4175, 4197, 4219, 4250 and 4281 Å and a wide blue band with a maximum near 4430 Å were observed (Fig 1, where the wavelengths are given in Å). A similar result is obtained if CuBr of analytic purity was used. If this substance was held in vacuum for 2-3 hours and cooled to 77°K, it did not luminesce. When air was let into the vessel containing the analytic purity CuBr, luminescence was observed (Fig 2, a) which was identical with that obtained in the sample prepared by decomposition of CuBr₂. The cycle of evacuation and letting in of air can be

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On Low-Temperature Luminescence of CuBr

repeated many times with the same results. The author found that the narrow bands at 4250 and 4281 Å disappear under vacuum treatment faster (in 15-20 minutes) than the remainder of the luminescence spectrum. If the sample is heated in vacuum at 80-100°C, the luminescence spectrum obtained after air is let in is somewhat different (Fig 2, b). In the case of simultaneous heating and evacuation luminescence disappears considerably earlier (in 1-2 hours) than in the case of evacuation alone. If CuBr in the non-luminescent state is irradiated with light of wavelengths in the region of its intrinsic absorption (e.g. 3660 Å) at 77°K for about 30 minutes luminescence appears whose intensity depends on the duration of irradiation. The narrow bands at 4250 and 4281 Å do not appear in this case and only the narrow bands at 4175 and 4219 are present. If water vapour is admitted into the vessel containing the sample in the non-luminescent state the luminescence spectrum appears again, but without the 4250 and 4281 Å bands. The latter two bands appear if, instead of water vapour, dry oxygen is used. It is likely that the presence of oxygen is essential for appearance of these two bands. Narrow bands in the region 4175-4219 Å and the wide blue band always appear together.

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On Low-Temperature Luminescence of CuBr

SOV/51-4-6-18/24

The experiments carried out by the author suggest that the low-temperature luminescence of CuBr is related to surface effects on CuBr crystals. It is possible that luminescence centres appear due to adsorption of gases. The author thanks A.N. Terenin for directing this work. There are 2 figures and 10 references, 5 of which are Soviet, 4 French and 1 American.

ASSOCIATION: Leningradskiy gosudarstvennyy universitet, Fizicheskiy institut
(Leningrad State University, Physics Institute)

SUBMITTED: December 21, 1956

Card 3/3

BRWEN, P., *Chem Phys-Lett Sci* (USSR) "Narrow bands" ~~of~~
phosphorus halides
of cyanus bromide and alkali ~~halides~~ phosphor ~~to~~ activat-
ed by it." *Len*, 1957. 11 pp (Len Order of Lenin State U in
I.A. Zhdanov), 150 copies (MI, 30-59,110)

- / -

SHVIST, P.

Luminescence centers of cuprous bromide. Acta phys Hung 12 no.1:
93-94 '60. (EEAI 10:2)

1. Institut tekhnicheskoy fiziki VAn, Budapesht
(Copper bromides) (Luminescence)

YUGOSLAVIA/General Biology - Evolution.

B-7

Abs Jour : Ref Zhur - Biol., No 7, 1958, 28620

Author : Shvob

Inst : -

Title : Khadzhi's Reconstruction of Animal Phylogenesis.

Orig Pub : Naucna misao, 1955, No 3-4, 127-129

Abstract : A brief statement of new phylogenetic aspects by Iovan Khadzhi, contained in the treatise, "New aspects in phylogenesis of metazoa," (1952, Zagreb), and in his turbellar theory of cnidaria.

Card 1/1

RUZHENTSEV, S.V.; SHVOL'MAN, V.A.

Shift zone in the eastern Pamirs. Izv. AN SSSR. Ser. geol.
28 no.7:80-83 J1 '63. (MIRA 16:12)

1. Geologicheskii institut AN SSSR, Moskva.

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27-87 162.

SECRET

YAVORSKIY, V.N.; SHVOL'MAN, V.A.

Reviews and discussions. Izv. AN SSSR, Ser. geol. 29 no. 12: 101-108
D '64. (MIRA 12:1)

1. Geologicheskii institut AN SSSR, Moskva (for Shvol'man).

ARKH.L. OV, I.V.; SHVOL'MAN, V.A.

Tectonic plan of the Pamirs. Izv. vyz. ucheb. zav.; geol. 1
razv. 7 no.12:3-13 D '64. (MIRA 18:12)

1. Geologicheskii institut AN SSSR.

RUZHENTSEV, S.V.; SHVETSMAN, V.A.

Boundary between the zones of the northern and central Pamirs.
Geotektonika no.6:69-78 N-D 1965. (MIRA 19:1)

1. Leningradskiy gosudarstvennyy universitet imeni Zhdanova i
Geologicheskiy institut AN SSSR. Submitted Febr. 18, 1965.

1. Fizicheskiy aspekt teorii difraktsii svetla; O.N.;
1965.

2. Fizicheskiy aspekt teorii difraktsii svetla
v fiz. zhurn. Akad. nauk SSSR. teoret. fiz. 2 ser. 10:
1965. (MIRA 10:1)

1. Fizicheskiy aspekt teorii difraktsii svetla v fiz. zhurn. Akad. nauk SSSR. teoret. fiz. 2 ser. 10:
1965. Submitted July 23, 1965.

L 12816-66 FBD/SNT(1)/EWP(e)/EEG(k)-2/T/SWP(k)/EWA(m)-2/EWA(h) SCTB/IJF(c)

ACC NR: AP6001771 WG/WW/GG/WH SOURCE CODE: UR/0386/65/002/010/0458/0463/

AUTHOR: Akhmanov, S. A.; Yershov, A. G.; Fadeyev, V. V.; Khokhlov, R. V.; Chunayev, O. N.; Shvov, Ye. M.

ORG: Physics Department of the Moscow State University (Fizicheskiy fakul'tet Moskovskogo gosudarstvennogo universiteta)

TITLE: Observation of two-dimensional parametric interaction of light waves

SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki. Pis'ma v redaktsiyu. Prilozheniye, v. 2, no. 10, 1965, 458-463

TOPIC TAGS: ruby laser, laser modulation, parametric amplifier, laser emission coherence

ABSTRACT: The authors report the results of an experiment in which two-dimensional parametric interaction was realized in the optical band, using a ADP nonlinear crystal. The pump was the second harmonic of ruby laser emission ($\lambda_p = 0.3471 \mu$), and the signal was the laser emission itself ($\lambda_s = 0.6943 \mu$). A degenerate interaction mode was thus realized ($\omega_s = \omega_1 = \omega_2 = \omega_p/2$). The two-dimensional interaction of the signal wave with the pump in the ADP crystal gave rise to still another wave at frequency ω_{sup} (the supplementary wave), the wave vector of which k_{sup} had a direction determined by the relation $k_1 + k_2 = k_p$ and by the dispersion characteristics of the crystal. The tuning curves of the parametric amplifier are presented and expressions for the signal and supplementary power are derived. It is noted that whereas the process of degenerate parametric amplification in one-dimensional interaction is de-

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L 12816-66

ACC NR: AP6001771

terminated essentially by the phase shift between the pump and the signal, the phase dependence disappears for the two-dimensional degenerate interaction. A block diagram of the experimental setup is shown in Fig. 1. The Q-switched ruby laser excites an optical frequency doubler (with a KDP crystal 2 cm long) and is simultaneously the generator of the amplified signal. The unfocused pump and signal waves interact in the ADP crystal (3 cm long); the way the two-dimensional interaction is realized is clear from the figure. The experiment yielded $P_{sup}/P_s(0) = 0.02$ and $P_s/P_s(0) = 0.8$, as against the theoretical $P_{sup}/P_s(0) = 0.2$ and $P_s/P_s(0) = 1.0$. The angular aperture of the two-dimensional parametric interaction exceeds the corresponding value for the one-dimensional amplification, and is equal to the angular aperture of the pump beam. In the experiment the divergence of the pump was $2'$, equal to the divergence of the supplementary wave. The theoretical value of the capture angle calculated for the conditions of the experiment is $10''$. Authors thank V. G. Dmitriyev, with whom the theoretical research was carried out, G. V. Venkin for help in the experiment, and V. V. Yurlov for the KDP and ADP crystals. Orig. art. has: 3 figures and 4 formulas.

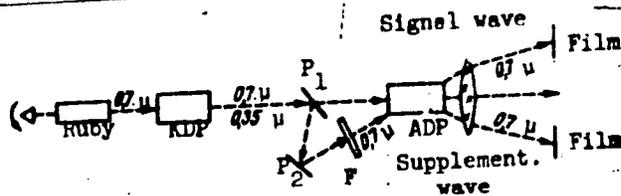


Fig. 1. Block diagram of experimental setup. P₁ and P₂ - plane-parallel plates, F - filter absorbing the pump radiation ($\lambda_p = 0.3471 \mu$).

SUB CODE: 20/ SUBM DATE: 23Jul65/ ORIG REF: 002/ OTH REF: 007/ ATD PRESS 4183
 Card 2/2 JW

into a giant pulse by an avalanche-type mechanism. mission (T) of the filter should satisfy the equation $R_1 T^2 = R_{eff}$, where R_1 is the UDC: 621.378.325

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L 07832-47

ACC NR: AP6033817

2

reflection coefficient of one of the mirrors (99% in the experiment) and R_{eff} is the reflection coefficient of the exit mirror. The width of the absorption band of the bleachable solution should be less than 300 \AA and the shift of its absorption peak in relation to the pulse emitting wave length should be less than 50 \AA for a good Q-switching filter. These conditions were met to an optimum degree in solutions of vanadyl phthalocyanine in nitrobenzene, zirconium phthalocyanine in nitrobenzene and in benzyl alcohol. Giant pulses of 70, 70, and 55 Mw, respectively, were obtained with the above solutions, at 12 kj pumping energy and $T = 12\%$. The output power of the giant pulses was one or two orders of magnitude lower with the solutions of aluminum phthalocyanine chloride in nitrobenzene or ethyl alcohol and of zirconium phthalocyanine in toluene or ethyl alcohol. The authors thank S. A. Akhmanova and R. V. Khokhlova for valuable discussion. Orig. art. has: 3 figures and 1 table.

SUB CODE: 07, 20/ SUBM DATE: 22Sep65/ ORIG REF: 003/ OTH REF: 003/ ATD PRESS: 5101

Card 2/2 bc

SHVORIN, B.I.

In the land of cold weather. Zdorov'e 5 no.2:28 F '59.
(MIRA 12:2)

1. Nachal'nik otdela polynarnoy meditsiny Glavsevmorputi.
(ARCTIC MEDICINE)

SHUGRIM, B. I.

8(6) **PHASE I BULK REPRODUCTION** 80V/2802
 Arsenchenko, P.D., V.I. Voyts, B.A. Gurevich, V.I. Dmitrov, A.G. Zakharia,
 B.A. Krasovoy, I.B. Kolodny, M.M. Krasovoy, S.P. Krasovoy, S.P. Krasovoy,
 Izhakov, M.P., Kost'yev, M.P., Malin, A.S., Petrov, G.I., Rostovskiy,
 S.M. V.I. Sidorov

Energy voyevy planirovaniya yedinoi energeticheskoy sistemy SSSR (Basic Problems in Planning a Unified Power System for the USSR.) Moscow, Izdatel'stvo ENER, 1979. 176 p. Errata slip inserted. 2,500 copies printed. Sponsoring Agency: Akademiya nauk SSSR. Energeticheskoy Institut.

Ed.: G.M. Ershovskiy, Academician and V.I. Voyts, Corresponding Member, USSR Academy of Sciences; Tech. Ed.: S.G. Markovitch.

Abstract: This book is intended for government planning circles, scientific research organizations and others interested in the electrification of the USSR.

Contents: The book examines the principal problems of a unified power system for the USSR on a basis for a program of government planning in that field. It is the result of several years of study conducted mainly at the power engineering institutes of the Academy of Sciences, USSR, in cooperation with other engineering institutes of the individual Soviet Republics, Ministries and local scientific societies, and in close cooperation with the Gosplan, USSR State Scientific Center, and the Gosstatizdat. The book is devoted to the problems of technical policy for the prospective development of a unified electric power system in the USSR. The problems outlined are applicable to the planned system as a whole, as well as to the individual regions which are scheduled for 1970. One of the main results of the plan is that since it is possible to obtain higher installed capacities in a shorter time and on lower capital outlays by the construction of steam turbine electric power plants rather than hydraulic ones, the construction of steam turbine plants with a simultaneous increase in hydro-power developments, comprising the most economical ones or those which are the only or the main sources of power in a given region or are dictated by other conditions such as irrigation, river control, etc. Nuclear plants will play a steadily increasing role in the development of a unified power system. Several highly scientific and technical matters were prompted by the study of a unified electric power system. Problems of nuclear power stations, the application of high-speed electronic computers for automatic control, regulation and protection of the system, the increasing use of semiconductor, the use of various types of power plants, etc. These problems were presented in two earlier publications of the Academy of Sciences USSR (Scientific papers I, partiya yedinoi energeticheskoy sistemy SSSR (Scientific papers in the Creation and Development of a Unified Power System in the USSR) Conclusions of a Scientific Conference, Moscow, 1968; and Nauchnye doklady Akademiya Nauk SSSR, 1968). The system of the ob'yedinyaniya yedinoi energeticheskoy sistemy

SYUY SHOU-BO [Hsü Shou-po], aspirant; KHUAN CHZHI-TSZE [Huang Chih-chieh],
aspirant; SHVORIN, B.I., inzh., nauchnyy sotrudnik

Certain aspects fo the development of power engineering in China.
Obshch. energ. no.1:127-141 '59. (MIRA 13:2)

1.00E Energeticheskogo instituta AN SSSR.
(China--Power engineering)

BARDIN, I.P., akademik, glavnyy red. [deceased]; VEYTS, V.I., glavnyy red.toma; VOZNESENSKIY, A.N., prof., red.toma; ZAKHARIN, A.G., doktor tekhn.nauk, red.toma; RUSAKOVSKIY, Ye.A., prof., red.toma; SHVORIN, B.I., kand.ekon.nauk, red.toma; ANTRUSHIN, B.D., inzh., red.izd-va; DOROKHINA, I.N., tekhn.red.

[Power engineering; proceedings of the Conference on the Development of the Productive Forces of Eastern Siberia] Energetika. Trudy Konferentsii po razvitiyu proizvoditel'nykh sil Vostochnoi Sibiri. Moskva, Izd-vo Akad.nauk SSSR, 1960. 415 p.
(MIRA 13:10)

1. Konferentsiya po razvitiyu proizvoditel'nykh sil Vostochnoy Sibiri, 1958. 2. Chlen-korrespondent AN SSSR (for Veyts).
3. Energeticheskiy institut im. G.M.Krzhizhanovskogo AN SSSR (for Veyts, Shvorin). 4. "Gidroenergoprojekt" Ministerstva stroitel'stva elektrostantsiy (for Voznesenskiy).
(Siberia, Eastern--Electric power)

SHVORIN, B.I.

Use of natural gas by electric power plants. Gaz.prom. 5
no.1:38-42 Ja '60. (MIRA 13:4)
(Electric power plants) (Gas, Natural)

LAPITSKIY, V.I.; SHVORIN, B.I.

Discussing L.A.Melent'ev and E.O.Shteingauz's book "Power
engineering economics in the U.S.S.R." Elek.sta. 31 no.1:
92-93 Ja '60. (MIRA 13:5)

(Power engineering)

LAPITSKIY, V.I., kand.tekhn.nauk; SHVORIN, B.I., kand.ekonomicheskikh nauk

Economics of a 2,400,000 kilowatt state regional electric power
plant. ¹eploenergetika 8 no.1:11-14 Ja '61. (MIRA 14:4)

1. Moskovskiy inzhenerno-ekonomicheskii institut.
(Electric power plants)

SHVORIN, B.I.

Plenum of the economic section of the Moscow Council
and Technological Society of the Power Industry on problems
of the expenditure of electric power for various purposes.
Prom. energ. 19 no. 4:48-49 Ap '64. (MIRA 17:5)

SHVORIN, G.

Using tanker loading systems for the warming-up of petroleum products by heated jet. Mor. flot 23 no.6:22-24 Ja '63. (MIRA 16:9)

1. Zaveduyushchiy laboratoriyey Odesskogo instituta inzhenerov morskogo flota.

(Tank vessels) (Petroleum, Heating of)

SHVORNEVA, A. M.

USSR/Plant Diseases - Diseases of Cultivated Plants.

0.

Abs Jour : Ref Zhur - Biol., No 4, 1958, 16003

Author : A.M. Shvorneva

Inst :

Title : The Influence of Watermelon's Cultivation Conditions on Fusarium Wilt Damage.
(Vliyaniya usloviy vyrashchivaniya arbuza na povrezhdeniye yego fuzarial'nyu uvyadaniyem).

Orig Pub : Nauchn. tr. Byovsk. bakhchevoy opyt. st., 1957, 4, 134-152.

Abstract : The disease symptoms, microscopical investigations of infected plants, the fungus' method of impregnation and the physiological activity of the *Fusarium niveum* Smith on plants are described. Low soil temperature during the period of seed germination and the appearance of shoots, deep embedding of the seeds in planting facilitate the development of the disease.

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SHVORNEVA, A.M

USSR/Plant Diseases - Diseases of Cultivated Plants. 0.

Abs Jour : Rei Zhur - Biol., No 8, 1958, 34962

Author : Nikulina, N.K., Shvorneva, A.M.

Inst : -

Title : Toxic Bacteriosis of the Water Melon.

Orig Pub : Zashchita rast. ot vredit. i bolezney, 1957, No 5, 55.

Abstract : Typical symptoms: Sharply outlined, brownish protuberant spots. The center of the spots resembles the spots of insect bites or stings. To the touch, the spots are similar to nipplewort. After sectioning the water melon, the decomposition of the flesh is well noticeable. Fruits are gradually yellowing. The intensity of the development of the disease depends on the degree of ripeness (green fruit is not affected), the temperature of the air and the amount of precipitation. The carrier bacteria belongs to the group Proteus. Toxins eliminated by the bacteria cause pathological symptoms in humans and animals. -- D'yakova.

Card 1/1

- 9 -

USSR/Plant Diseases - Diseases of Cultivated Plants.

0.

Abs Jour : Ref Zhur - Biol., No 8, 1958, 43963

Author : Shvorneva, A.M.

Inst : -

Title : Toxic Bacteriosis of the Water Melon.

Orig Pub : S. kh. Povolzh'yu, 1957, No 8, 88-89.

Abstract : The source of infection appears to reside in the seeds of the water melon, its vegetative remains, as well as in the soil and water. It is recommended that all left-overs be destroyed after harvest, and all fruits be carefully examined. Livestock is not to be fed with diseased fruit, which are to be collected in trenches, sprayed with chloric lime and covered with earth. When sowing seeds from non-affected areas, the seeds are to be treated prior to sowing with the disinfectant NIUF 1 (1 : 300) for ten minutes or with the bactericide Zbarskiy (1 : 10,000) for 30 minutes. Treatment can be carried out 3 to 4 months prior to sowing. - Abramovich.

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L 4077-66 EWT(m)/EWA(d)/EWP(t)/EWP(z)/EWP(b) JD

ACC NR: AP5026591

SOURCE CODE: UR/0056/65/049/004/1038/1041

AUTHOR: Shvorneva, L. I.; Venevtsev, Yu. N.ORG: Physicochemical Institute im. L. Ya. Karpov (Fiziko-khimicheskiy institut)

TITLE: Perovskites with ferroelectric properties

SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 49, no. 4, 1965, 1038-1041

TOPIC TAGS: ferroelectric material, ferroelectric property perovskite, inorganic synthesis

ABSTRACT: In view of the important practical applications of ferroelectric compounds and of the necessity for a closer study of their properties, specimens of single-phase perovskites of the following compositions have been synthesized: I) specimen approaching the composition $\text{Pb}(\text{Fe}_{1/2} \text{Ta}_{1/2})\text{O}_3$; II) $\text{Pb}(\text{Co}_{1/2} \text{Ta}_{1/2})\text{O}_3 + 1 \text{ mol\% La}_2\text{O}_3$; III) $(\text{Pb}_{0.95} \text{Ba}_{0.05})(\text{Ni}_{1/2} \text{Nb}_{1/2})\text{O}_3$; and IV) $(\text{Pb}_{0.95} \text{Sr}_{0.05})(\text{Mn}_{1/2} \text{Ta}_{1/2})\text{O}_3$. The synthesis was conducted by the usual technology with the use of high-purity Fe_2O_3 , PbCO_3 , Nb_2O_5 , Ni_2O_3 , Ta_2O_5 , and Mn_2O_3 as starting materials. The perovskite phases of specimens II, III, and IV were stabilized by additions of 1 mol% La_2O_3 , 5 mol% BaO and 5 mol% SrO , respectively. Magnetic and electric measurements showed that I and III are ferromagnetics-ferroelectrics; II is an antiferromagnetic-ferroelectric; and IV is a ferromagnetic-ferroelectric. The magnetic and electric Curie points (T_{cm} and

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Card 2/2

SHVORNEVA, V.Z.

Methods for preventing cerebrospinal fluid fistulae in two-stage
surgery of tumors of the posterior cranial fossa. *Vop. neurokhir.*
22 no.1:52-55 Ja-F '58 (MIRA 11:3)

1. Nauchno-issledovatel'skiy ordena Trudovogo Krasnogo Znameni
institut neyrokhirurgii imeni akad. N.N.Burdenko Akademii meditsinskikh
nauk SSSR.

(BRAIN NEOPLASMS, surgery,
posterior cranial fossa, prev. of fistulae in 2-stage
operations (Rus)

KORNYANSKIY, G.P.; SHVORNEVA, V.Z.

Tumors of the clivus blumenbachii. Vop. neirokhir 24 no. 2:24-29
Mr-Sp '60. (MIRA 14:1)

(PITUITARY FOSSA—TUMORS)

UGRYUMOV, V. M., prof.; KONOVALOV, Yu. V., prof.; SPIRIN, B. G., kand.
med. nauk; IVANOV-DYATLOV, F. G., kand. med. nauk; MESHCHERYAKOVA,
A. V.; MIKHEYEVA, Ye. V., kand. med. nauk; FEDOROV, S. N.;
SHVORNEVA, V. Z.; D'YAKONOVA, V. Ye. (Moskva)

Disorders of respiration and their treatment in tumors of the brain.
Vop. neurokhir. no.6:46-50 '61. (MIRA 14:12)

(BRAIN--TUMORS) (RESPIRATION)

SHVORNEVA, V.Z.

Use of medication sleep in neuralgia of the fifth nerve. Probl.
sovr.neirokhir. 3:397-403 '59. (MIRA 16:6)
(NEURALGIA, TRIGEMINAL) (SLEEP THERAPY)

SHVOV, V.Ya.

In the service of man ("Subjugation of the elements." I.A.Sharov.
Reviewed by V.IA.Shvov). Nauka i shisn' 21 no.11:46-47 N '54.
(Reclamation of land) (Sharov, I.A.) (MLBA 7:12)

BUTAKOV, V.G.; KOGAN, N.G.; SHVOYNITSKAYA, N.A., inzh. (Sverdlovsk)

Potentials for reducing the costs of snow control. Put' i put.
khoz. 9 no.12:8-9 '65. (MIRA 19:1)

1. Zamestitel' nachal'nika sluzhby puti Sverdlovskoy dorogi
(for Butakov). 2. Nachal'nik tekhnicheskogo otdela sluzhby
puti Sverdlovskoy dorogi (for Kogan).

MOREYNIS, Yakov Izrailevich; BARKOVSKIY, N.D., retsenzent; ~~SHYUM, D.M.~~
spetsred.; FUKS, V.K., red.; SOKOLOVA, I.A., tekhn.red.

[Financing and crediting of sugar industry enterprises] Finansi-
rovanie i kreditovanie predpriiatii sakharnoi promyshlennosti.
Moskva, Pishchepromizdat, 1959. 176 p. (MIRA 12:9)
(Sugar industry--Finance)

BASOVICH, Moisey Izrail'yevich; NARBUT, K.P., retsenzent; SHVUIM, D.M.,
retsenzent; NOZDRINA, V.A., red.; SOKOLOVA, I.A., tekhn.red.

[Organization of financial work in enterprises of the meat
industry] Organizatsiia finansovoi raboty na predpriatiakh
miasnoi promyshlennosti. Izd.2., dop. i perer. Moskva, Pishche-
promizdat, 1960. 141 p. (MIRA 14:4)
(Meat industry--Finance)

SHVUIM, D.

Procedures for paying turnover tax. Den. i kred. 20 no.3:
22-25 Mr '62. (MIRA 15:3)
(Sales tax)

MATVEYEV, G.; SHVUIM, D.

"Finances of state commerce and its planning" by N.I. Kuzin.
Reviewed by G. Matveev, D. Shvuim. Sov.torg. 35 no.2:42-46
F '62. (MIRA 15:1)

1. Nachal'nik upravleniya kreditovaniya trgovli Gosbanka SSSR. (for Matveyev).
2. Nachal'nik finansovogo otdela Ministerstva trgovli RSFSR (for Shvuim).
(Russia--Commerce)
(Kuzin, N.I.)

SHVUIM, D.M.

Individual problems of business accounting in enterprises.
Den. i kred. 18 no.3:29-32 Mr '60. (MIRA 13:2)

1. Nachal'nik finansovogo otdela ekonomicheskogo upravleniya Mosgor-
sovnarkhoza. (Finance)

(A) L 11002-66

EWT(m)/EWP(t)/EWP(b) IJP(c) ID/JG

ACC NR: AP5028721

SOURCE CODE: UR/0363/65/001/011/1911/1916

AUTHOR: Yefimenko, L. N.; Verkhorobin, L. F.; Shvydchenko, A. G.

112
05

ORG: Physicotechnical Institute, Academy of Sciences, UkrSSR, Kharkov (Fiziko-tekh-nicheskiy institut Akademii nauk UkrSSR)

TITLE: Oxidation of lower tungsten and molybdenum silicides

SOURCE: AN SSSR. Izvestiya. Neorganicheskiye materialy, v. 1, no. 11, 1965, 1911-1916

TOPIC TAGS: tungsten compound, molybdenum compound, silicide, oxidation kinetics, silica, *PHASE COMPOSITION, METAL OXIDATION*

ABSTRACT: The oxidation of W_5Si_3 and Mo_5Si_3 , obtained by the vacuum silicidizing of tungsten and molybdenum, was carried out in air in the 500-1000°C temperature range. The structure and phase composition of the oxides were determined by metallographic and x-ray methods. The two silicides displayed a similar behavior during oxidation: in both cases, oxides are formed by the metal and silicon. Because the metal oxide is adjacent to the silicide--whereas SiO_2 is found on the surface--it is postulated that atmospheric oxygen penetrates to the surface where it forms SiO_2 . Differences in the oxidation kinetics of the two silicides are due to the difference in the vapor pressure of WO_3 and MoO_3 . It is noted that the lower W and Mo silicides are much

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UDC: .546.78'281 + 546.77'281

L 11002-66

ACC NR: AP5028721

less stable to oxidation than the W and Mo disilicides. Orig. art. has: 4 figures, 2 tables. 0

SUB CODE: 07,11/

SUBM DATE: 25May65/

ORIG REF: 005/

OTH REF: 004

PC
Card 2/2

L 05689-67 EWT(d)/FSS-2

ACC NR: AR6004343

SOURCE CODE: UR/0274/65/000/009/V003/V003

AUTHOR: Pogorel'skiy, A. Ye.; Semenenko, V. A.; Rol'nik, M. A.; Shvydchenko, B. V.

REF SOURCE: Sb. nauchn. tr. Gos. in-t po proyektir. i issled. vzryvobezopasn. elek-trooborud. Giproniselektroshakht, vyp. 2, 1964, 33-38

TITLE: Methods to insure hazardless sparking in communication equipment

SOURCE: Ref. zh. Radiotekhnika i elektrosvyaz', Abs. 9V24

TOPIC TAGS: spark gap, communication equipment

TRANSLATION: It is noted that the hazardless sparking of electrical circuits is de-fined by the characteristics of the transients that result from closing and breaking the circuits. To insure hazardless sparking, it is desirable that these transients be of an aperiodic nature, since in this case the maximum current and voltage do not ex-ceed certain values. For a given system capacitance, the condition for an aperiodic transient is $R > 2\sqrt{L/C}$, a condition which can be met by reducing inductance L . It thus follows that hazardless sparking is most efficiently attained by using communication circuits without inductive elements. In such a scheme, transistors carry out the func-tion of the subscriber's relay, the relay controlling the sending of a call. This re-lay consists of a coil and a transformer. The sidetone is achieved by means of a re-sistance bridge. The description of commutators of types RDSKh and GSKh are cited.

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ACC NR: AR6004343

These were developed at the Dongiprouglemash Institute on the basis of the hazardless sparking circuits. B. B.

SUB CODE: 09/ SUBM DATE: none

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Card 2/2

IVOYLOVA, Ye.S., inzh.; SHVYDCHENKO, K.I., inzh.

Utilizing cement dust in structural mortars. Stroi. mat. 9
no.5:32-33 My '63. (MIRA 16:7)

(Mortar)

LOBOV, N.F.; SHVYDCHENKO, L.I., redaktor; POPOVA, N.A., tekhnicheskiiy redaktor

[Practices of leading irrigation workers] Opyt peredovykh polival'-
shchikov. Rostov-na-Donu, Rostovskoe kn-vo, 1953. 27 p. (MLRA 10:1)
(Irrigation farming)

SHUMAKOVA, K.P.; SHVYDCHENKO, L.I., redaktor; GLOTOVA, M.I., tekhnicheskiy redaktor

[Growing rice with periodic floodings] Vozdelyvanie risa pri periodicheskikh polivakh. Rostov-na-Donu, Rostovskoe kn-vo, 1954. 26 p.
(Rice) (MIRA 10:1)

SHVYDCHENKO, L.I., redaktor

[Aids for rural machinery operators; a collection of articles] V
pomoshch' sel'skim mekhanizatoram; sbornik statei. Rostov-na-Donu,
Rostovskoe kn-vo, 1955. 112 p. (MLRA 9:11)
(Traction engines)

SHVYDCHENKO, L.I.

SHVYDCHENKO, L.I., redaktor

[Corn on the Don] Kukuruz na Donu. Rostov-na-Donu, Rostovskoe
knizhnoe izd-vo, 1956. 157 p. (MLRA 10:9)
(Rostov Province--Corn (maize))

SEVRYUK, Vladimir Mikhaylovich; SHVYDCHENKO, L. I., red.; ALYAKRITSKAYA,
L. S., tekhn. red.

[Let us fatten 6000 swine per year] Otkormim za god 6000 svinei.
Rostov-na-Donu, Rostovskoe knizhnoe izd-vo, 1960. 18 p.

(MIRA 14:12)

1. Starahiy svinar¹ uchebno-opytного khozyaystva "Zernovoye",
Meshetinskogo rayona (for Sevryuk).
(Swine--Feeding and feeds)

DEGTYAREV, Vladimir Il'ich; SHVYDCHENKO, L.I., red.; IVANOVA, R.N., tekhn.
red.

[Leptospirosis in swines and its control] Leptospiroz svinei i bor'-
ba s nim. Rostov-na-Donu, Rostovskoe knizhnoe izd-vo, 1961. 117 p.
(MIRA 14:11)

(Swine--Diseases and pests) (Leptospirosis)

NIKITIN, Mikhail Nikolayevich; SHVYDCHENKO, L.I., red.; BOROVINSKAYA,
L.M., tekhn. red.

[High yields, inexpensive bread; from the practice of the
"TSelinskii"] Bogatye urozhai, deshevyi khleb; iz opyta
oporno-pokazatel'nogo ordena Lenina sovkhoza "TSelinskii."
Rostov-na-Donu Rostovskoe knizhnoe izd-vo, 1962. 16 p.
(MIRA 15:3)

1. Glavnyy agronom semenovodcheskogo sovkhoza "TSelinskiy"
TSelinskogo rayona (for Nikitin).
(Rostov Province—Grain)

SUBBOTINA, Praskov'ya Avilovna; SHVYDCHENKO, L.I., red.; BOROVIANSKAYA,
L.M., tekhn. red.

[Shop for machine sheepshearing; from experience on the
Khrushchev State Sheep Raising Farm in Zimovniki District]
TSeKh mashinnoi strizhki ovets; iz opyta ovtsevodcheskogo
sovkhoza imeni Khrushcheva, Zimovnikovskogo raiona. Rostov-na-
Donu, Rostovskoe knizhnoe izd-vo, 1962. 34 p. (MIRA 15:3)

1. Glavnyy zotekhnik Sovkhoza imeni Khrushcheva, Zimovnikovskogo
rayona (for Subbotin).
(Zimovniki District—Sheepshearing)

SHAPOSHNIKOV, Aleksey Platonovich; BESSARABOV, Sergey Filippovich;
KUZNETSOV, Konstantin Arkhipovich; ALEKSEYEVA, R.L., red.;
SINEYDEMAN, K.A., red.; SHVYDCHENKO, L.I., red.;
BOROVINSKAYA, L.M., tekhn. red.

[Shelterbelt afforestation and landscaping in the Don Valley;
from farm practices in Rostov Province] Zashchitnoe lesoraz-
vedenie i ozelenenie na Donu; iz opyta khoziaistv Rostovskoi
oblasti. Rostov-na-Donu, Rostovskoe knizhnoe izd-vo, 1962.
269 p. (MIRA 15:10)
(Rostov Province--Windbreaks, shelterbelts, etc.)

ANGEL'YEV, D.; TROFIMENKO, N.; SOLDATOV, I.; SHVYDCHENKO, L.I., rod.;
POPOVA, N.A., tekhn. red.

[A centner of grain in 38 minutes; from the practices of the "Gigant"
State Farm in Rostov Province]TSentner zerna - za 38 minut; iz opyta
sovkhoza "Gigant," Rostovskoi oblasti. Rostov-na-Donu. Rostovskoe
knizhnoe izd-vo, 1961. 20 p. (MIRA 15:11)

1. Direktor sovkhoza "Gigant" Rostovskoy oblasti (for Angel'yev).
2. Glavnyy agronom sovkhoza "Gigant" Rostovskoy oblasti (for Trofimenko).
3. Glavnyy inzhener sovkhoza "Gigant" Rostovskoy oblasti (for Soldatov).

(Grain)

SHVYDENKO, Ya.

The city of ten industrial towns. Znan. ta pratsia no.8:2-5 Ag
'60. (MIRA 13:9)

(Krivoy Rog--Industries)

BUTSEROGA, M.M., doktor sel'skokhoz. nauk; ARTSUKEVICH, S.G.; SHVYDKA,
Ye.K.; KUZ'MENKO, Yu.P.

Time and methods for the placement of fertilizers for corn.
Zemledelie 25 no.10:46-49 0 '63. (MIRA 16:11)

1. Ukrainskiy nauchno-issledovatel'skiy institut zemledeliya.

SHAPOVALOV, L.T., kand. tekhn. nauk; SHVYDKIY, A.F., gornyy inzh.

Results of the introduction of reducing valves. Gor. zhur. no.5:
42-44 My '65. (MIRA 13:5)

1. Gosudarstvennyy institut po proyektirovaniyu oborudovaniya po
dobyche i obogashcheniyu rud, Krivoy Rog.

117-58-6-6/36

AUTHORS: Shvydkiy, A.I., Engineer, Igoshin, V.S., Engineer

TITLE: ~~the~~ Application of a Coordinate Plate on a Molding Machine
(Primeneniye koordinatnoy plity na formovochnoy mashine)

PERIODICAL: Mashinostroitel', 1958, Nr 6, pp 13-14 (USSR)

ABSTRACT: Molding machines working with compressed air are indispensable in metal casting. The equipment of the molding machine type 265 consists of 3 plates weighing 330 kg. The machine is suitable for the manufacture of only 1 part, i.e. the steam cylinder block of the PNP2M pump. The changing of the 3 molding plates is very difficult, meaning that other details must be molded on other machines. A universal model plate has been developed by the engineers A.I. Shvidkiy and S.Ya. Zeygarnik, which can be used for the molding of different steam cylinder blocks. This coordinate model plate on the molding-machine type 265 is 1,430x730x153 mm in size and weighs 160 kg. It has 60 different openings. The changing of different models on this plate takes only 2 min. This new plate permits the molding of details of any configuration. The

Card 1/2

The Application of a Coordinate Plate on a Molding Machine 117-58-6-6/36

of 4.3 atm whereas the former equipment needed a pressure of 5.3 atm. There is 1 figure.

ASSOCIATION: Svesskiy nasosnyy zavod (Svessk Pump Plant)

AVAILABLE: Library of Congress

Card 2/2 1. Molding machines-Plate revision

SHVYDKIY, B. I.

Substitutions in the azolidine ring. IX. Stability of thiazolidine ring in alkaline hydrolysis. N. M. Turkevich and B. I. Shvydkii (Med. Inst. Lvov), *Ukrain. Khim. Zhur.* 18, 513-18 (1952) (in Russian); *Ch. C.A.* 48, 11302a.— On the basis of the rate of hydrolysis by *N.* 0.1*N.*, and 0.01*N.* NaOH, the ring stability of the following compds. was found to depend on the function at position 2 (stability increased in the order :NOH, :S, :O, and :NH): pseudothiohydantoin, its 5-Me and 5-Ph derivs., thiazolidinedione, and rhodanine and its 5-Me deriv. The Ph group in 5 position stabilizes the ring, while the 5-Me group stabilizes rhodanine, but not pseudothiohydantoin. Hydrolysis results in formation of mercapto carboxylic acids. G. M. Kosolapoff

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SHVYDKIY, B.I.

Conditions for the extraction of the alkaloids of nux vomica
(Strychnos nux vomica L.) from aqueous solutions with organic
solvents. Ukr. khim. zhur. 26 no.2:243-245 '60.
(MIRA 13:9)

1. L'vovskiy meditsinskiy institut.
(Alkaloids)

VAL'BERG, G.S., ZAVGORODNIY, M.S., KOGAN, N.P., SIDOCHENKO, I.M.,
SHVYDKIY, M.Ya.

Enriching air with oxygen in burning clinker in shaft
kilns. TSement 26 no.3:3-8 My-Je '60. (MIRA 13:7)
(Clinker brick)

SHVYDKIY, M.Ya.; GRINER, M.K.; BEVZ, A.N.; MEFODOVSKIY, V.Ya.

Make fuller use of the capacity of rotary kilns. T~~S~~ement 28 no.6:
3-5 N-D '62. (MIRA 15:12)

1. Yuzhgiprotsement i Nikolayevskiy tsementnyy zavod.
(Kilns, Rotary)

VAL'BERG, G.S.; SHVYDKIY, M.Ya.; GRINER, I.K.

Study of the operation of rotary kilns at the Nikolayev Cement Plant.
Trudy IUzhgiprotsementa no.5:3-22 '63. (MIRA 17:12)

SHVYDKIY, M.Ya.; GRINER, I.K.

Study of the operation and management of the 4.5 x 170m. rotary kiln
at the Belgorod Cement Plant. Trudy Iuzhglprotsementa no.5:23-32 '63.
(MIRA 17:12)

OVCHINNIKOV, Yu.N.; KITAYEV, B.I.; SHVYDKIY, V.S.; YAROSHENKO, Yu.G.;
LAZAREV, B.L.

Analyzing heat processes in a blast furnace hearth with fuel
injection through the tuyeres. Izv. vys. ucheb. zav.; chern.
met. 8 no.10:42-48 '65. (MIRA 18:9)

1. Ural'skiy politekhnicheskiy institut.

BULATOV, I.A., inzh.; SHVYDKIY, V.S., inzh.

Organizing maintenance and repair of industrial equipment. Mashinostroenie no. 6:9-11 N-3 '64 (MIRA 18:2)

SHVYDKO, V., kapitan; MOROZOV, N., kapitan

We improve mine-planting methods. Voen. vest. 41 no.11:97-99
N '61. (MIRA 16:11)

KUL'KEYEV, Maulet, mashinist ekskavatora; KULAKOV, N., redaktor; SHVYDKO, Z.,
redaktor; OYSTRAKH, V., tekhnicheskij redaktor

[Progressive work procedures of machinists operating excavators in
coal mines] Peredovye priemy raboty mashinistov ugol'nykh ekskavato-
rov. Alma-Ata, Kazakhskoe gos. izd-vo 1956. 15 p. (MLRA 9:10)

1. Karagandinskiy ugol'nyy razrez. (for Kul'keyev)
(Excavating machinery)

LOBANOV, Valentin Ivanovich; KULAKOV, N., redaktor; ~~SHVYDKO, Z.~~ redaktor;
OYSTRAKH, V., tekhnicheskikh redaktor

[Mining organization in mine No.18-bis] Opyt organizatsii prokhodki
gornykh vyrabotok na shakhte No.18-bis. Alma-Ata, Kazakhskoe gos.
izd-vo, 1956. 15 p. (MLRA 9:10)

1. Glavnyy inzhener shakhty No. 18-bis kombinata "Karagandaugol"
(for Lobanov)³
(Coal mines and mining)

SHCHERBAKOV, Aleksandr Vasil'yevich; SHVYDKO, Z.A., red.; KOZLOV, S.V.,
tekhn. red.

[How we get good corn yields] Kak my poluchaem vysokie urozhai
kukuruzy. Alma-Ata, Kazakhskoe gos. izd-vo, 1956. 17 p.

(MIRA 11:7)

1. Brigadir polevodcheskoy brigady No.8 kolkhoza imeni Khrushcheva
Kaskelenskogo rayona Alma-Atinskoy oblasti, (for Shcherbakov).
(Kazakhstan--Corn (Maize))

PANASENKO, Aleksey Gavrilovich, kand. sel'skokhozyaystvennykh nauk; SHVYDKO,
Z.A., red.; ZLOBIN, M.V., tekhn. red.

[Keeping and raising all the young] Polnost'iu sokhranit' i vyrastit'
molodniak. Alma-Ata, Kazakhskoe gos. izd-vo, 1956. 17 p.
(Kazakhstan--Dairy cattle) (MIRA 11:7)

KOTOV, Konstantin Stepanovich; SHVYDKO, Z.A., red.; KOZLOV, S.V., tekhn.
red.

[Use of machinery in checkrowing corn] Mekhanizatsiia vozdelevaniia
kukuruzy kvadratno-gnezdomym sposobom. Alma-Ata, Kazakhskoe gos.
izd-vo, 1956. 18 p. (MIRA 11:7)
(Kazakhstan--Corn (Maize))

SHIKOVA, Marfa Ustinovna; SHVYDKO, Z.A., red.; ZLOBIN, M.V., tekhn. red.

[For an average daily weight increase of 1,000 grams for each calf]
Za 1000 grammov srednesutochnogo privesa kazhdogo telenka. Alma-Ata,
Kazakhskoe gos. izd-vo, 1956. 19 p. (MIRA 11:7)

1. Telyatnitsa kolkhoza "Luch Vostoka", Alma-Atinskoy oblasti
(for Shikova).

(Calves--Feeding and feeding stuffs)

TSEDERBERG, Vera Valerianovna, kandidat sel'skokhozyaystvennykh nauk;
SHVYDKO, Z.A., redaktor; ZLOBIN, M.V., tekhnicheskiy redaktor

[More high-grade wool] Bol'she vysokokachestvennoy shersti. Alma-
Ata, Kazakhskoe gos. izd-vo, 1956. 22 p. (MLRA 9:10)
(Wool)

KARGOPOLOV, Yevgeniy Aleksandrovich; SHVYDKO, Z.A., redaktor; KOZLOV, S.V.,
tekhnicheskiy redaktor

[The poisoning of sheep on spring pastures in southern Kazakhstan]
Otravlenie ovets na vesennikh pastbishchakh iuga Kazakhstana. Alma-
Ata, Kazakhskoe gos. izd-vo, 1956. 54 p. (MLBA 9:12)
(Kazakhstan--Pastures and meadows)
(Sheep--Diseases and pests)

KAPLAN, Pafael' Markovich, kand.tekhn.nauk; VAVILIN, Dmitriy Vasil'yevich,
inzh.-mekh.; GAMBURG, Yefim Moiseyevich, inzh.-mekh.; SHVYDKO, Z.,
red.; NAGIBIN, P., tekhn.red.

[Mechanization of production processes on dairy farms] Mekhani-
zatsia proizvodstvennykh protsessov na MTF. Alma-Ata, Kazakhscoe
gos. izd-vo, 1958. 172 p. (MIRA 11:12)
(Dairying) (Farm equipment)

BOYEV, S.N., akademik, prof., otv.red.; KARABAYEV, D.K., kand.veter.nauk, red.; BONDAREVA, V.I., kand.veter.nauk, red.; ANAN'YEV, P.K., spets.red.; BARANOV, M.D., red.; MELESHKO, K.L., red.; SHVYDKO, Z.A., red.; ZLOBIN, M.V., tekhn.red.

[Collection of papers on helminthology; on the occasion of Professor Rikhard Solomonovich Shul'ts' 60th birthday] Sbornik rabot po gel'mintologii; k 60-letiiu so dnia rozhdenia professora Rikharda Solomonovicha Shul'tsa. Alma-Ata, Kazakhskoe gos.izd-vo, 1958.
(MIRA 12:4)
402 p.

1. Vsesoyuznaya akademiya sel'skokhozyaystvennykh nauk imeni V.I. Lenina, Kazakhskiy filial.
 2. Akademiya nauk Kazakh.SSR i Veterinarnaya sektsiya Kazakhskogo filiala Vsesoyuznoy akademii sel'skokhozyaystvennykh nauk im. V.I.Lenina, Alma-Ata (for Boyev).
 3. Kazakhskiy nauchno-issledovatel'skiy veterinarnyy institut, Alma-Ata (for Bondareva).
- (Helminthology--Collections)

ZVEREV, N.V.; SHVYDKO, Z.A., red.; GRABARNIK, A.Z., red.; TURABAYEV, B.,
tekhn.red.

[Kazakhstan in the seven-year plan] Kazakhstan v semiletke;
sbornik statei i ocherkov. Alma-Ata, Kazakhskoe gos.izd-vo,
1960. 238 p. (MIRA 13:12)
(Kazakhstan--Economic conditions)

BELINSKAYA, M.S.; SHVYLEVA, A.A.; PROTS'KO, V.I.

Spectral method for determining copper in iron salts. Prom.
khim. reak. i osobo chist. veshch. no.1:22 '63. (MIRA 17:2)

VLADIMIRSKIY, T.A., inzhener; SHVYLKOV, A.K., inzhener; NIKITIN, M.A.,
inzhener.

The SGP-3R machine for gas-pressure welding of 12 to 60 mm pipes.
Rats i izobr. predl. v stroi. no.72:14-16 '54. (MLRA 10:9)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut zheleznodorozhnogo
transporta Ministerstva putey soobshcheniya.
(Pipe--Welding)

NAYMARK, B.A., NIKOLICH, A.I., SHVIROVA, L.S.

Economic efficiency in the increase of the lifetime of the platen
of a drill pump. Mash. i neft. obr. no.2:24-27 '66. (MIRA 13:5)

1. Gosudarstvennyy nauchno-issledovatel'skiy proyektnyy institut
neftyanogo mashinostroyeniya.

SHVYLPOV, A. K., VLADIMIRSKIY, T. A., SELIVANOV, K. V., PASHKOV, N. V.

All-Union Sci. Res. Inst. Railroad Transportation, Central Sci. Res. Inst.,
Ministry of Communications, -c1949-.

Engineer

"Gas pressure welding of railroad car parts," Avtogen. Delo, No. 12, 1949.

1. VLADIMIRSKIY, T. A.; BELIVANOV, K. V.; SHVYLOV, A. K.
2. USSR 600
4. Oxyacetylene welding and cutting
7. New equipment for gas pressure welding, Avtog. delo, 24, No. 2, 1953.

9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.

SOV-135-58-2-7/18

AUTHORS: Tkachenko, F.S., Selivanov, K.V. and Shvylpov, A.K.,
Engineers

TITLE: Properties of Gas-Press Welded Joints of Cast and Rolled
Large-Section Metal (Svoystva soyedineniy litogo i prokat-
nogo metalla bol'shikh secheniy, vypolnennykh gazopressovoy
svarkoy)

PERIODICAL: Svarochnoye proizvodstvo, 1958, Nr 2, pp 25 - 28 (USSR)

ABSTRACT: The article presents results of experiments on gas-press
welding of large-section (20,000 to 25,000 mm²) steel
parts, where rolled with cast, rolled with rolled , and
cast with cast parts were joined. Until now, this method
was used in the USSR and abroad only for joining round sec-
tions not over 8,000 to 10,000 mm², whereas the described
method obtains fully satisfactory joints in low-carbon steel
sections of 22,500 mm². The described experiments, super-
vised by T.A. Vladimirovskiy, were performed on gas-press
equipment₂ developed by the TsNII for welding parts up to
50,000 mm² and with the use of a multiple flame torch
("MG-PR") with an acetylene consumption of 21,000 m³/hr.

Card 1/2

135-58-8-9/20

AUTHORS: Tkachenko, F. S., Selivanov, K. V. and Shvylpov, A. K.,
Engineers

TITLE: New Machines and Torches for Gas-Press Welding (Novyye
stanki i gorelki dlya gazopressovoy svarki)

PERIODICAL: Svarochnoye proizvodstvo, 1958, Nr 8, pp 30 - 35 (USSR)

ABSTRACT: Information is given on special equipment, used for welding
railroad rolling-stock parts in the Soviet Union, developed
at TsNII MPS under the supervision of T. A. Vladimirovskiy,
Candidate of Technical Sciences. The welding stand (fig.1-3)
equipped with a torch oscillating device for welding parts
with a cross-section area up to 50,000 sq mm. The "SGP-8u"
welding machine (fig.4) for the repair of large-size loco-
motive parts. Multiple flame torches such as: "MG-PR"
(fig.5) for welding and heat treatment of large-section
parts; "MG-120" (fig.6) for welding cylindrical parts up
to 120 mm in diameter; "MG-80" to weld rods up to 90 mm
in diameter; "MGD" (fig.7) and "MG-DS" (fig.8) for repair

Card 1/2

New Machines and Torches for Gas-Press Welding

135-58-8-9/20

of locomotive coupling poles. The technical characteristics of this equipment are given. There are 7 photographs and 1 diagram

ASSOCIATION: TsNII MPS

1. Welding--Equipment--Characteristics

Card 2/2

VLADIMIRSKIY, T.A., doktor tekhn. nauk; ZHARKOV, A.F., inzh.; SHVYLPOV, A.K.

Gas pressure welding of rails. Zhel. dor. transp. 40 no.12:28-34

D '58.

(MIRA 12:3)

(Railroads--Rails--Welding)

ZHARKOV, A.F., inzh.; SHVYLPLOV, A.K.

Using gas welding and pressure for railroad welding. Put'i put.
khoz. 4 no.7:14-15 JI '60. (MIRA 13:7)
(Gas welding and cutting)
(Railroads--Rails--Welding)

VLADIMIRSKIY, T.A., doktor tekhn.nauk; ZHARKOV, A.F., inzh.; SHVYLOV,
A.K., inzh.

Pressure gas welding of rails. Svar.proizv. no.8:17-20
Ag '60. (MIRA 13:7)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut zheleznodorozh-
nogo transporta Ministerstva putey soobshcheniya.
(Gas welding and cutting)
(Railroads--Rails--Welding)

VLADIMIRSKIY, T.A., doktor tekhn.nauk; SHVYLPOV, A.K., inzh.; SELIVANOV,
K.V., inzh.; MEL'NIKOV, O.Ye., tekhnik

Using gas welding under pressure for rolling stock repairs. Zhel.
dor.transp. 42 no.6:58-62 Ja '60. (MIRA 13:7)
(Gas welding and cutting)
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The hardening of alloyed tool steel from the stable austenite conditions. B. S. Shvyrev, M. I. Shutov and N. V. Ulyanova. *Vestnik Metallprom.* 13, No. 6, 71-2 (1934); *Chem. Zentr.* 1934, I, 2031.— Alloyed tool steel was hardened by heating above the A_c1 point and cooling in linseed oil at 135-230° for a period varying from a few sec. to 2 min. The specimen was brought to 250-70° in the air and allowed to remain in the austenite condition from a few sec. to 0.5 hr. The decompn. of austenite into martensite began more quickly the lower the temp. of the cooling bath and the longer the specimen (over about 45 sec.) was allowed to remain in a 230° bath. M. G. M.

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possibly also upon the thermal treatment itself. Comparison of the mech. properties of the cold-rolled duralumin indicated that the effect of thorough working is not essentially significant but that the anisotropy of the material after quenching is the chief factor increasing the depth of tempering. By a combination of mech. and thermal treatment a duralumin was obtained having a tensile strength of 18 kg./sq. mm. and an extensibility of 20%.
M. G. Moore

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Methods of improving the stability of cutting instruments B. S. Sheyrey, K. M. Gel'fand and V. V. Skotin. *Metallurgiya* 1940, No. 15, 31-5. A complex preliminary heat-treatment should eliminate the necessity of selecting the steel more carefully. Suitable ranges in chem. compn. are C 0.70-0.75, Cr 3.0-1.2, W 17.5-10.0 and V 1.0-1.3%. The heat-treatment gave good results in Ford plants in the U. S. and it is thought that it would make it possible to discontinue importation of drills from the U. S. B. Z. Kamich

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